

	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Yen	102	105	178	165	122	98	134	97
Dollar	56	57	67	90	64	56	78	34
Rupee	209	230	256	231	201	199	230	223
Yuan	69	78	75	76	69	95	69	70

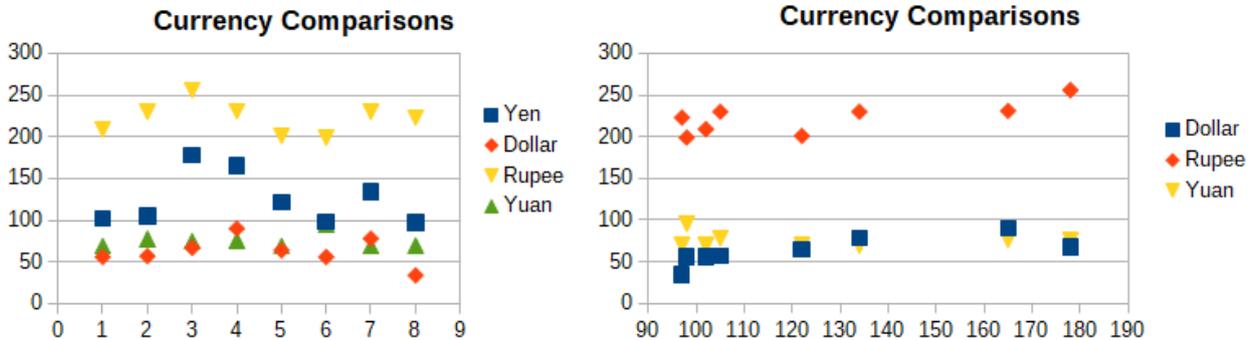


Figure 142: XY (Scatter) chart examples

The data range for the chart on the left in Figure 142 includes the cells containing the months. However, the months do not appear on the chart because only values can be used in XY (scatter) charts and Calc substitutes them for cardinal numbers.

The data range for the chart on the right does not include the cells containing the months. Calc assumes that the first row (or column) of data contains values for the X axis. The Y values of the other data series are paired with each of those X values. This means that there are no data points for the Japanese yen but each of the other currencies are shown in comparison to the yen, since it supplies the X values.

## Bubble charts

A bubble chart is a variation of a scatter chart that can show three variables in two dimensions. The data points are shown with bubbles. Two variables are plotted along the X and Y axes, while the third variable is represented by the relative size of the bubbles. These charts are often used to present financial data or social/demographic data.

One or more data series can be included in a single chart. The data series dialog for a bubble chart has an entry to define the data range that determines the size of the bubbles.

It may be necessary to build a bubble chart manually in the data series page of the Chart Wizard. Figure 143 shows how the data ranges can be set for a bubble chart.

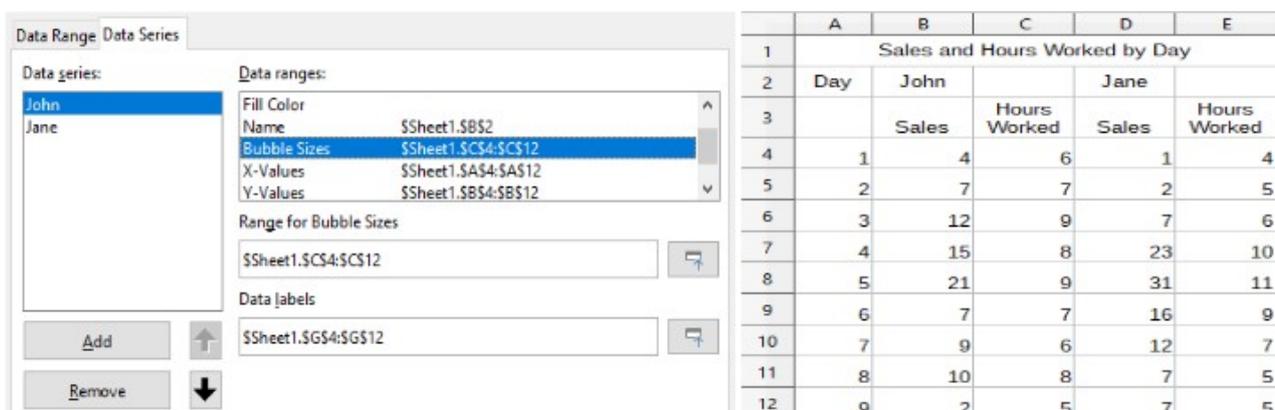


Figure 143: Data series entries for a bubble chart

The chart in Figure 144 is based on the data in Figure 143. To format the chart, the data series are 50% transparent with a radial gradient. The data labels are formatted to be numbers in the center of the data points (bubbles).